## Table 3: Cement Plant NOX Control Costs

Source	Plant	Clinker production capacity Firing type Kiln type (tons/hr) (direct/indirect)		Existing Nox Existing control Nox CEMs	Capital cost (\$)		Total annualized cost (annualized capital cost, labor, maintenance, taxes and administration, overhead) (\$/yr)		Annual monitoring cost			Annual reporting and permitting cost			Total annual administrative cost	Total annual cost		2007 projected emissions (tons)	30% emissions reductions (tons)	
										1990 \$	1990/199 inflation factor		1990\$	1990/1998 inflation factor	1998\$		indirect firing	direct firing		
						Indirect-firing	direct firing	indirect firing	direct firing								indirect firing	direct firing		
Essroc	Speed	long dry	42	direct	yes		1,686,000		312,400	63,540	1.	16 73,700	6 253	1.16	293	74,000			403	3
Lonestar		semi-dry, preheater	184	Indirect	yes	1,210,000		240,800		63,540	1.	16 73,70	6 253	1.16	293	74,000			1845	5
Lehigh	Mitchell	long dry	38	between direct and indirect firing		536,267	1,224,933	135,867	295,600	63,540	) 1.	16 73,70	6 253	3 1.16	293	74,000			564	1
		long dry	38	between direct and indirect		536,267	1,224,933	135,867	295,600										468	3
		preheater	43	between direct and indirect		552,000	1,554,000	142,100	291,600										565	5
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Total						2,834,534	5,689,866	654,634	1,195,200							222,000	876,634	1,417,200	3845	1154
Overall cost- effective ness																				
(\$/ton)																	760	1,228	3	

12/27/00